

A method and an apparatus of decoding a television broadcasting signal are disclosed. In one embodiment, an improved video decoder converts the video signal into a digitized video signal. The improved video decoder then separates luminance information and chrominance information of the digitized video signal in a dimension that has a constancy value below a predetermined threshold level. Lastly, the improved video decoder optionally converts the separated luminance information and chrominance information into an output format that conforms to input requirements of the NTSC/PAL television.